Author index of volume 333

Allgaier C, 104
Amann R, 290
Amoroso S, 224
Andén NE, 17
Andersson B, 205
Annunziato L, 224
Aramendía P, 168

Bachus SE, 143
Baldwin JJ, 110
Bartfai T, 1
Barthó L, 290
Batink HD, 182
Bechtel W-D, 277
Beck O, 307
Benedek G, 47
Ben-Ishay D, 117
Best L, 78
Bizière K, 186
Blier P, 342
Böhm M, 284
Böhnisch H, 246
Bönisch H, 13
Bogaert MG, 229
Bolton TB, 78
Bom AH, 198
Borchard U, 130
Boston GD, 163
Boulton AA, 240
Bourgeois BFD, 406
Brinkmann M, 130
Brodde O-E, 130
Brodin E, 1

Carlsson A, 205
Carr FP, 70
Cassis L, 253
Chahl LA, 387
Chaput Y, 342
Cichini, G, 36
Clineschmidt BV, 110
Corrêa FMA, 139
Costa M, 393
Creba JA, 98

Dahlöf C, 362
Dandekar T, 381
Daul A, 130
Dausse J-P, 117
Davidesko D, 182
Di Renzo GF, 224
Dillard RD, 70
Diop L, 117
Domae M, 294
Doods HN, 182
Doyle VM, 98
Duckles SP, 59
Duncker DJ, 198
Dupont AG, 229

Engberg G, 235
Engel G, 335

Fahim M, 412
Falkenhausen Sv, 52
Faull KF, 307
Feinauer M, 7
Ferrario P, 43
Feuerstein TJ, 104, 191
Fleisch JH, 70
Fowler CJ, 349
Freissmuth M, 156
Friedrich U, 246
Fujise N, 450
Furness JB, 393

Gaida W, 277
Gale K, 143
Galzin AM, 330
Gamse R, 65
Geck P, 323
Götz D, 149
Grabowska-Andén M, 17
Gramsch C, 381
Greenshaw AJ, 240
Grohmann M, 253
Grome JJ, 172

Hafner B, 43
Haisch KD, 70
Harro J, 303
Hashimoto K, 83
Hattori Y, 421
Hausleithner V, 156
Hedberg A, 362
Heiligers J, 198
Hertting G, 104, 191
Hicks PE, 354
Hjorth S, 205
Hoefke W, 277
Hölting T, 262
Holford NHG, 163
Hoyer D, 98, 335
Hropot M, 457
Huff JR, 110

Illes P, 52
Ito H, 439
Iverfeldt K, 1

Jakobs KH, 124
Jivegård L, 178
Jonge A de, 182
Joó F, 47
Juorio AV, 240

Kanno M, 421
Kato T, 439
Kaumann AJ, 91
Keast JR, 393
Kennedy JA, 368
Kiivet R-A, 303
Kitada Y, 31
Klaesson L, 17
Knepel W, 149
Konno F, 271
Kosasa T, 31
Kuriyama H, 294
Kuriyama H, 431

Laduron PM, 400
Lande ISdela, 368
Langeloh A, 13
Langer SZ, 330, 354
Lassmann H, 36
Laude D, 117
Lefebvre RA, 229
Lelkes Z, 47
Lembeck F, 290
Lemoine H, 91
Leysen JE, 400
Lindmar R, 7
Löffelholz K, 7
Lotti VJ, 110
Ludwig J, 253
Lundberg JM, 65

Mantegazza P, 43
Markstein R, 335
Márquez MT, 168
Martin GE, 110
Martling CR, 65
Mathy M-J, 182
McCullough D, 70
Mende U, 284
Metzner K, 381
Mierau J, 277
Minuth M, 124
Miyauchi T, 31
Montigny Cde, 342
Mulder AH, 377
Mutschler E, 457

Nagao T, 431
Najar M, 354
Nakasone J, 439
Nakaya H, 421
Nerme V, 362
Nishimura M, 450
Noguchi K, 439

Ögren SO, 1
Ogawa N, 445
Olsson RA, 313
Ono H, 445
Oreland L, 235

Palluk R, 277
Parini A, 117
Paton DM, 163, 313
Pelá IR, 139
Peterson LL, 1
Pettibone DJ, 110
Pfeiffer B, 323
Placheta P, 36
Ponce-Hornos JE, 168
Pressman BC, 412
Publicover SJ, 454
Putters J, 377

Rägo L, 303
Randall WC, 110
Repke DB, 307
Rinkema LE, 70
Rocher D, 186
Rüegg UT, 98

Sahaf ZY, 454
Sakanashi M, 439
Santucci V, 186
Saria A, 65
Satoh H, 83
Satoh S, 31
Saxena PR, 198
Schemuth R, 130
Schmidt BH, 23
Schmitz W, 284
Schoffelmeer ANM, 377
Scholz H, 284
Schotte A, 400
Schütz W, 156
Schultz JE, 23
Schulz R, 381
Singer EA, 36
Soares-da-Silva P, 219
Sörgel F, 457
Starke K, 262
Stefanovich V, 172
Sunagawa R, 439
Suzuki H, 431
Svanvik J, 178
Svensson K, 205
Sztriha L, 47

Taglialatela M, 224
Takayanagi I, 271
Tammiso R, 43
Thompson RT, 313
Tohse N, 421
Tuisl E, 156

Ueta J, 139
Ullrich B, 7

Vacca J, 110
Verdouw PD, 198
Veyrun J, 186
Vidal M, 354
Vulto AG, 349

Wang XL, 130
Webster DR, 163
Wikström H, 205

Yagasaki O, 450

Zambotti F, 43
Zonta N, 43
Zwieten PA van, 182

Author index of volume 333

Allgaier C, 104
Amann R, 290
Amoroso S, 224
Andén NE, 17
Andersson B, 205
Annunziato L, 224
Aramendía P, 168

Bachus SE, 143
Baldwin JJ, 110
Bartfai T, 1
Barthó L, 290
Batink HD, 182
Bechtel W-D, 277
Beck O, 307
Benedek G, 47
Ben-Ishay D, 117
Best L, 78
Bizière K, 186
Blier P, 342
Böhm M, 284
Böhnisch H, 246
Bönisch H, 13
Bogaert MG, 229
Bolton TB, 78
Bom AH, 198
Borchard U, 130
Boston GD, 163
Boulton AA, 240
Bourgeois BFD, 406
Brinkmann M, 130
Brodde O-E, 130
Brodin E, 1

Carlsson A, 205
Carr FP, 70
Cassis L, 253
Chahl LA, 387
Chaput Y, 342
Cichini, G, 36
Clineschmidt BV, 110
Corrêa FMA, 139
Costa M, 393
Creba JA, 98

Dahlöf C, 362
Dandekar T, 381
Daul A, 130
Dausse J-P, 117
Davidesko D, 182
Di Renzo GF, 224
Dillard RD, 70
Diop L, 117
Domae M, 294
Doods HN, 182
Doyle VM, 98
Duckles SP, 59
Duncker DJ, 198
Dupont AG, 229

Engberg G, 235
Engel G, 335

Fahim M, 412
Falkenhausen Sv, 52
Faull KF, 307
Feinauer M, 7
Ferrario P, 43
Feuerstein TJ, 104, 191
Fleisch JH, 70
Fowler CJ, 349
Freissmuth M, 156
Friedrich U, 246
Fujise N, 450
Furness JB, 393

Gaida W, 277
Gale K, 143
Galzin AM, 330
Gamse R, 65
Geck P, 323
Götz D, 149
Grabowska-Andén M, 17
Gramsch C, 381
Greenshaw AJ, 240
Grohmann M, 253
Grome JJ, 172

Hafner B, 43
Haisch KD, 70
Harro J, 303
Hashimoto K, 83
Hattori Y, 421
Hausleithner V, 156
Hedberg A, 362
Heiligers J, 198
Hertting G, 104, 191
Hicks PE, 354
Hjorth S, 205
Hoefke W, 277
Hölting T, 262
Holford NHG, 163
Hoyer D, 98, 335
Hropot M, 457
Huff JR, 110

Illes P, 52
Ito H, 439
Iverfeldt K, 1

Jakobs KH, 124
Jivegård L, 178
Jonge A de, 182
Joó F, 47
Juorio AV, 240

Kanno M, 421
Kato T, 439
Kaumann AJ, 91
Keast JR, 393
Kennedy JA, 368
Kiivet R-A, 303
Kitada Y, 31
Klaesson L, 17
Knepel W, 149
Konno F, 271
Kosasa T, 31
Kuriyama H, 294
Kuriyama H, 431

Laduron PM, 400
Lande ISdela, 368
Langeloh A, 13
Langer SZ, 330, 354
Lassmann H, 36
Laude D, 117
Lefebvre RA, 229
Lelkes Z, 47
Lembeck F, 290
Lemoine H, 91
Leysen JE, 400
Lindmar R, 7
Löffelholz K, 7
Lotti VJ, 110
Ludwig J, 253
Lundberg JM, 65

Mantegazza P, 43
Markstein R, 335
Márquez MT, 168
Martin GE, 110
Martling CR, 65
Mathy M-J, 182
McCullough D, 70
Mende U, 284
Metzner K, 381
Mierau J, 277
Minuth M, 124
Miyauchi T, 31
Montigny Cde, 342
Mulder AH, 377
Mutschler E, 457

Nagao T, 431
Najar M, 354
Nakasone J, 439
Nakaya H, 421
Nerme V, 362
Nishimura M, 450
Noguchi K, 439

Ögren SO, 1
Ogawa N, 445
Olsson RA, 313
Ono H, 445
Oreland L, 235

Palluk R, 277
Parini A, 117
Paton DM, 163, 313
Pelá IR, 139
Peterson LL, 1
Pettibone DJ, 110
Pfeiffer B, 323
Placheta P, 36
Ponce-Hornos JE, 168
Pressman BC, 412
Publicover SJ, 454
Putters J, 377

Rägo L, 303
Randall WC, 110
Repke DB, 307
Rinkema LE, 70
Rocher D, 186
Rüegg UT, 98

Sahaf ZY, 454
Sakanashi M, 439
Santucci V, 186
Saria A, 65
Satoh H, 83
Satoh S, 31
Saxena PR, 198
Schemuth R, 130
Schmidt BH, 23
Schmitz W, 284
Schoffelmeer ANM, 377
Scholz H, 284
Schotte A, 400
Schütz W, 156
Schultz JE, 23
Schulz R, 381
Singer EA, 36
Soares-da-Silva P, 219
Sörgel F, 457
Starke K, 262
Stefanovich V, 172
Sunagawa R, 439
Suzuki H, 431
Svanvik J, 178
Svensson K, 205
Sztriha L, 47

Taglialatela M, 224
Takayanagi I, 271
Tammiso R, 43
Thompson RT, 313
Tohse N, 421
Tuisl E, 156

Ueta J, 139
Ullrich B, 7

Vacca J, 110
Verdouw PD, 198
Veyrun J, 186
Vidal M, 354
Vulto AG, 349

Wang XL, 130
Webster DR, 163
Wikström H, 205

Yagasaki O, 450

Zambotti F, 43
Zonta N, 43
Zwieten PA van, 182

Subject index of volume 333

acetylcholine, parasympathetic nervous system, ouabain; heart, chicken, guinea-pig, 7
adenocorticotropin, endorphin, prostaglandin E2; anterior pituitary, rats, 149
adenosine analogues, neurotransmission, adenosine receptor-N6-region; guinea-pig ileum, rat vas deferens, 313
adenosine, cardiac hypertrophy, phenylephrine, isoprenaline; papillary muscle, hypertensive rats, 284
adenosine, glucose utilization, methylxanthines, cerebral blood flow; conscious rats, 172
adenosine nucleotides, neurotransmission, purinoceptors; vas deferens, rats, 163
adenosine receptor-N6-region, adenosine analogues, neurotransmission; guinea-pig ileum, rat vas deferens, 313
adenosine receptors, adenylate cyclase; heart, guinea-pig, 156
adenylate cyclase, 5-hydroxytryptamine-receptor subtypes; hippocampus, rats, 335
adenylate cyclase, adenosine receptors; heart, guinea-pig, 156
adenylate cyclase, alpha 2-adrenoceptors, noradrenaline, N-ethylmaleimide; hippocampus, rabbit, 104
adenylate cyclase, sodium, guanine nucleotides, beta-adrenoceptors; lung, guinea-pig, 124
adimolol, antihypertensive agents, adrenolytic properties, angiotensin 2, MEN 935; vascular preparations, rabbit, rats, 277
adrenoceptors, noradrenaline, clonidine; brain, rats, 36
adrenolytic properties, angiotensin 2, MEN 935, adimolol, antihypertensive agents; vascular preparations, rabbit, rats, 277
allosteric regulation, 5-hydroxytryptamine receptors, ketanserin; tracheal smooth muscle, calf, guinea-pig, 91
alpha 1-adrenoceptors, receptor classification; iris dilator muscle, aortic strips, rabbit, 271
alpha 2-adrenoceptor antagonists, benzofuroquinolizine, L-654.284; vas deferens, rats, 110
alpha 2-adrenoceptors, noradrenaline, N-ethylmaleimide, adenylate cyclase; hippocampus, rabbit, 104
alpha 2-adrenoceptors, opioid receptors, receptor interaction, noradrenaline; brain slices, rats, 377
alpha 2-adrenoceptors, opioid receptors, receptor protection, noradrenaline; brain cortex, rabbit, 262
alpha-adrenoceptors, idazoxan, prazosin, noradrenaline; tail arteries, rats, 354
alpha-adrenoceptors, noradrenaline, sodium, hypertension; cerebral cortex, hypothalamus, Sabra rats, 117
amiloride; heart, dog, rabbit, 83
aminopyridazines, barbiturates, benzodiazepines, SR 41378; EEG analysis, rats, 196
amphetamine, cocaine, GABA, behaviour, muscimol; pedunculopontine nucleus, rats, 143
analgesia, morphine, benzodiazepine antagonists, diazepam; tail-flick test, rats, 43
angiotensin 2, MEN 935, adimolol, antihypertensive agents, adrenolytic properties; vascular preparations, rabbit, rats, 277
antidepressants, phosphodiesterase, beta-adrenoceptors, cAMP, rolipram; brain, rats, 23
antidepressants, substance P, serotonin 2 receptors; spinal cord, rats, 1
antiepileptic drugs, phenobarbital, phenytoin, pharmacodynamic interaction; electroshock, mice, 406
antihypertensive agents, adrenolytic properties, angiotensin 2, MEN 935, adimolol; vascular preparations, rabbit, rats, 277
apomorphine, dopamine receptor agonists, noradrenegic neurotransmission; vascular bed, rats, 229
arteriovenous anastomoses, MDL 7222, methiothepin, 5-HT-like receptors; blood flow, pig, 198
asthma, LY 163443, leukotrienes; ileum, trachea, lung, guinea-pig, 70
ATP, ion transport, muzolimine, Ehrlich cells, 323
autoregulation, Bay K 8644, verapamil, calcium channel; renal blood flow, dog, 445

baclofen, benzodiazepines; behaviour, mice, 303
barbiturates, benzodiazepines, SR 41378, aminopyridazines; EEG analysis, rats, 196
Bay K 8644, calcium channel modulator, YC-170; heart, guinea-pig, aorta, rabbit, 421
Bay K 8644, verapamil, calcium channel, autoregulation; renal blood flow, dog, 445
behaviour, muscimol, amphetamine, cocaine, GABA; pedunculopontine nucleus, rats, 143
benzodiazepine antagonists, diazepam, analgesia, morphine; tail-flick test, rats, 43
benzodiazepines, baclofen; behaviour, mice, 303
benzodiazepines, SR 41378, aminopyridazines, barbiturates; EEG analysis, rats, 196
benzofuroquinolizine, L-654.284, alpha 2-adrenoceptor antagonists; vas deferens, rats, 110
beta-adrenoceptor antagonists, celiprolol, bisoprolol, pindolol, cAMP; human lymphocytes, 130
beta-adrenoceptors, adenylate cyclase, sodium, guanine nucleotides; lung, guinea-pig, 124
beta-adrenoceptors, cAMP, rolipram, antidepressants, phosphodiesterase; brain, rats, 23
beta-adrenoceptors, down regulation, desipramine; swimming test, rats, 31
beta-adrenoceptors, sympathectomy; spleen, cat, 362
bisoprolol, pindolol, cAMP, beta-adrenoceptor antagonists, celiprolol; human lymphocytes, 130
blood pressure, bradykinin, noradrenaline; septal area, rats, 139
bradykinin, noradrenaline, blood pressure; septal area, rats, 139

cadmium, neuromuscular transmission, sulfhydryl agents; diaphragma, mice, 450
calcium channel, autoregulation, Bay K 8644, verapamil; renal blood flow, dog, 445
calcium channel modulator, YC-170, Bay K 8644; heart, guinea-pig, aorta, rabbit, 421
calcium efflux, contractility, papaverine; atrium, rats, 168
calcium, phosphoinositides, inositol lipids; smooth muscle, guinea-pig, 78
calmidazolium, phenothiazines, calmodulin, neuromuscular junction; nerve-muscle preparation, frog, 454
calmodulin, dopamine, W-7; tuberoinfundibular neurons, rats, 224
calmodulium, neuromuscular junction, calmidazolin, phenothiazines; nerve-muscle preparation, frog, 454
cAMP, beta-adrenoceptor antagonists, celiprolol, bisoprolol, pindolol; human lymphocytes, 130
cAMP, rolipram, antidepressants, phosphodiesterase, beta-adrenoceptors; brain, rats, 23
capsaicin; guinea-pig, 65
capsaicin, neurotransmission, substance P, tachykinins; ear artery, rabbit, 52
capsaicin, substance P, vasodilatation; vascular smooth muscle, cat, guinea-pig, 59
cardiac hypertrophy, phenylephrine, isoprenaline, adenosine; papillary muscle, hypertensive rats, 284
cardiac work, catecholamines, monensin, ionophore; cardiovascular effects, dog, 412
catecholamines, monensin, ionophore, cardiac work; cardiovascular effects, dog, 412
catecholamines, monoamine oxidase, neuronal deamination, extraneuronal deamination; vas deferens, heart, rats, 253
catecholamines, nicotine receptors, muscarine receptors, neuropeptide; sympathetic ganglion, rats, 17

celiprolol, bisoprolol, pindolol, cAMP, beta-adrenoceptor antagonists; human lymphocytes, 130
cerebral blood flow, adenosine, glucose utilization, methylxanthines; conscious rats, 172
chloride transport, noradrenaline transport, sodium transport, PC-12 cells, 246
cholecystitis, fluid secretion, loperamide; gallbladder, cat, 178
chronotropy, muscarinic receptor, N-ethylmaleimide, inotropy; atrium, rats, 182
citalopram, neurotransmission, 5-hydroxytryptamine autoreceptors; nucleus raphe dorsalis, rats, 342
clonidine, adrenoceptors, noradrenaline; brain, rats, 36
cocaine, GABA, behaviour, muscimol, amphetamine; pedunculopontine nucleus, rats, 143
cocaine, noradrenaline metabolism, progesteron, O-methylation; uterus, rabbit, 368
contractility, papaverine, calcium efflux; atrium, rats, 168
coronary dilatation, nicorandil, nitroglycerin; dog, 439

deprenyl, 5-hydroxytryptamine, 5-HT-autoreceptors; hypothalamic slices, rats, 330
desipramine, beta-adrenoceptors, down regulation; swimming test, rats, 31
deuterium substitution, monoamine metabolism, phenelzine; brain, rats, 240
diazepam, analgesia, morphine, benzodiazepine antagonists; tail-flick test, rats, 43
dopamine autoreceptors, 3-PPP, HW-165; behaviour, rats, 205
dopamine autoreceptors, pergolide, tyrosine hydroxylase; nucleus accumbens, olfactory tubercle, rats, 349
dopamine, noradrenaline, dopamine-beta-hydroxylase, dopaminergic neurons; mesenteric artery, dog, 219
dopamine receptor agonists, noradrenegic neurotransmission, apomorphine; vascular bed, rats, 229
dopamine, W-7, calmodulin; tuberoinfundibular neurons, rats, 224
dopamine-beta-hydroxylase, dopaminergic neurons, dopamine, noradrenaline; mesenteric artery, dog, 219
dopaminergic neurons, dopamine, noradrenaline, dopamine-beta-hydroxylase; mesenteric artery, dog, 219
down regulation, desipramine, beta-adrenoceptors; swimming test, rats, 31

endorphin, prostaglandin E2, adenocorticotropin; anterior pituitary, rats, 149
endothelium, vasodilation, prostaglandin; thoracic aorta, dog, 294
extraneuronal deamination, catecholamines, monoamine oxidase, neuronal deamination; vas deferens, heart, rats, 253

fluid secretion, loperamide, cholecystitis; gallbladder, cat, 178
flunarizine, neuromuscular transmission; arteries, rabbit, 431
furosemide, thiazide-like diuretics; clearance, micropuncture, rats, 457

GABA, behaviour, muscimol, amphetamine, cocaine; pedunculopontine nucleus, rats, 143
glucose utilization, methylxanthines, cerebral blood flow, adenosine; conscious rats, 172
guanine nucleotides, beta-adrenoceptors, adenylate cyclase, sodium; lung, guinea-pig, 124

histamine, tachykinin antagonists, substance P analogues, nociceptors, rabbit ear, guinea-pig ileum, 290
5-HT-autoreceptors, deprenyl, 5-hydroxytryptamine; hypothalamic slices, rats, 330
5-HT-like receptors, arteriovenous anastomoses, MDL 7222, methiothepin; blood flow, pig, 198
5-HT receptors, MDL 72222, ICS 205-930, noradrenaline, serotonin; hippocampus, rabbit, 191
HW-165, dopamine autoreceptors, 3-PPP; behaviour, rats, 205
5-hydroxytryptamine autoreceptors, citalopram, neurotransmission; nucleus raphe dorsalis, rats, 342
5-hydroxytryptamine, 5-HT-autoreceptors, deprenyl; hypothalamic slices, rats, 330
5-hydroxytryptamine receptors, ketanserin, allosteric regulation; tracheal smooth muscle, calf, guinea-pig, 91
5-hydroxytryptamine receptors, serotonin, inositol phosphates; smooth muscle, rats, 98
5-hydroxytryptamine-receptor subtypes, adenylate cyclase; hippocampus, rats, 335
hypertension, alpha-adrenoceptors, noradrenaline, sodium; cerebral cortex, hypothalamus, Sabra rats, 117

ICS 205-930, noradrenaline, serotonin, 5-HT receptors, MDL 72222; hippocampus, rabbit, 191
idazoxan, prazosin, noradrenaline, alpha-adrenoceptors; tail arteries, rats, 354
inositol lipids, calcium, phosphoinositides; smooth muscle, guinea-pig, 78
inositol phosphates, 5-hydroxytryptamine receptors, serotonin; smooth muscle, rats, 98
inotropy, chronotropy, muscarinic receptor, N-ethylmaleimide; atrium, rats, 182
ion transport, muzolimine, ATP, Ehrlich cells, 323
ion transport, noradrenaline, somatostatin; small intestine, guinea-pig, 393
ionophore, cardiac work, catecholamines, monensin; cardiovascular effects, dog, 412
isoprenaline, adenosine, cardiac hypertrophy, phenylephrine; papillary muscle, hypertensive rats, 284

kainic acid, seizures, morphine, naloxone; electroencephalography, rats, 47
ketanserin, allosteric regulation, 5-hydroxytryptamine receptors; tracheal smooth muscle, calf, guinea-pig, 91

L-654.284, alpha 2-adrenoceptor antagonists, benzofuroquinolizine; vas deferens, rats, 110
leukotrienes, asthma, LY 163443; ileum, trachea, lung, guinea-pig, 70
lithium, noradrenaline, sodium, tris; vas deferens, rats, 13
loperamide, cholecystitis, fluid secretion; gallbladder, cat, 178
LY 163443, leukotrienes, asthma; ileum, trachea, lung, guinea-pig, 70

MDL 7222, methiothepin, 5-HT-like receptors, arteriovenous anastomoses; blood flow, pig, 198
MDL 72222, ICS 205-930, noradrenaline, serotonin, 5-HT receptors; hippocampus, rabbit, 191
MEN 935, adimolol, antihypertensive agents, adrenolytic properties, angiotensin 2; vascular preparations, rabbit, rats, 277
methiothepin, 5-HT-like receptors, arteriovenous anastomoses, MDL 7222; blood flow, pig, 198
methylxanthines, cerebral blood flow, adenosine, glucose utilization; conscious rats, 172
monensin, ionophore, cardiac work, catecholamines; cardiovascular effects, dog, 412
monoamine metabolism, phenelzine, deuterium substitution; brain, rats, 240
monoamine oxidase, neuronal deamination, extraneuronal deamination, catecholamines; vas deferens, heart, rats, 253
monoamine oxidase, noradrenaline system; locus coeruleus, rats, 235
morphine, benzodiazepine antagonists, diazepam, analgesia; tail-flick test, rats, 43
morphine, naloxone, kainic acid, seizures; electroencephalography, rats, 47
muscarine receptors, neuropeptide, catecholamines, nicotine receptors; sympathetic ganglion, rats, 17
muscarinic receptor, N-ethylmaleimide, inotropy, chronotropy; atrium, rats, 182

muscimol, amphetamine, cocaine, GABA, behaviour; pedunculopontine nucleus, rats, 143
muzolimine, ATP, ion transport, Ehrlich cells, 323

naloxone, kainic acid, seizures, morphine; electroencephalography, rats, 47
N-ethylmaleimide, adenylate cyclase, alpha 2-adrenoceptors, noradrenaline; hippocampus, rabbit, 104
N-ethylmaleimide, inotropy, chronotropy, muscarinic receptor; atrium, rats, 182
neuromuscular junction, calmidazolium, phenothiazines, calmodulin; nerve-muscle preparation, frog, 454
neuromuscular transmission, flunarizine; arteries, rabbit, 431
neuromuscular transmission, sulfhydryl agents, cadmium; diaphragma, mice, 450
neuronal deamination, extraneuronal deamination, catecholamines, monoamine oxidase; vas deferens, heart, rats, 253
neuropeptide, catecholamines, nicotine receptors, muscarine receptors; sympathetic ganglion, rats, 17
neurotensin, levocabastine; brain, rats, 400
neurotransmission, 5-hydroxytryptamine autoreceptors, citalopram; nucleus raphe dorsalis, rats, 342
neurotransmission, adenosine receptor-N6-region, adenosine analogues; guinea-pig ileum, rat vas deferens, 313
neurotransmission, purinoceptors, adenosine nucleotides; vas deferens, rats, 163
neurotransmission, substance P, tachykinins, capsaicin; ear artery, rabbit, 52
nicorandil, nitroglycerin, coronary dilatation; dog, 439
nicotine receptors, muscarine receptors, neuropeptide, catecholamines; sympathetic ganglion, rats, 17
nitroglycerin, coronary dilatation, nicorandil; dog, 439
nociceptors, histamine, tachykinin antagonists, substance P analogues, rabbit ear, guinea-pig ileum, 290
noradrenaline, alpha 2-adrenoceptors, opioid receptors, receptor interaction; brain slices, rats, 377
noradrenaline, alpha 2-adrenoceptors, opioid receptors, receptor protection; brain cortex, rabbit, 262
noradrenaline, alpha-adrenoceptors, idazoxan, prazosin; tail arteries, rats, 354
noradrenaline, blood pressure, bradykinin; septal area, rats, 139
noradrenaline, clonidine, adrenoceptors; brain, rats, 36
noradrenaline, dopamine-beta-hydroxylase, dopaminergic neurons, dopamine; mesenteric artery, dog, 219
noradrenaline metabolism, progesteron, O-methylation, cocaine; uterus, rabbit, 368
noradrenaline, N-ethylmaleimide, adenylate cyclase, alpha 2-adrenoceptors; hippocampus, rabbit, 104
noradrenaline, serotonin, 5-HT receptors, MDL 72222, ICS 205-930; hippocampus, rabbit, 191
noradrenaline, sodium, hypertension, alpha-adrenoceptors; cerebral cortex, hypothalamus, Sabra rats, 117
noradrenaline, sodium, tris, lithium; vas deferens, rats, 13
noradrenaline, somatostatin, ion transport; small intestine, guinea-pig, 393
noradrenaline system, monoamine oxidase; locus coeruleus, rats, 235
noradrenaline transport, sodium transport, chloride transport, PC-12 cells, 246
noradrenegic neurotransmission, apomorphine, dopamine receptor agonists; vascular bed, rats, 229

O-methylation, cocaine, noradrenaline metabolism, progesteron; uterus, rabbit, 368
opiates, opioid peptides; myenteric plexus, guinea-pig, 381
opiates, withdrawal responses, opioid peptides; ileum, guinea-pig, 387
opioid peptides, opiates; myenteric plexus, guinea-pig, 381
opioid peptides, opiates, withdrawal response ; ileum, guinea-pig, 387
opioid receptors, receptor interaction, noradrenaline, alpha 2-adrenoceptors; brain slices, rats, 377
opioid receptors, receptor protection, noradrenaline, alpha 2-adrenoceptors; brain cortex, rabbit, 262
ouabain, acetylcholine, parasympathetic nervous system; heart, chicken, guinea-pig, 7

papaverine, calcium efflux, contractility; atrium, rats, 168
parasympathetic nervous system, ouabain, acetylcholine; heart, chicken, guinea-pig, 7
pergolide, tyrosine hydroxylase, dopamine autoreceptors; nucleus accumbens, olfactory tubercle, rats, 349
pharmacodynamic interaction, antiepileptic drugs, phenobarbital, phenytoin; electroshock, mice, 406
phenelzine, deuterium substitution, monoamine metabolism; brain, rats, 240
phenobarbital, phenytoin, pharmacodynamic interaction, antiepileptic drugs; electroshock, mice, 406
phenothiazines, calmodulium, neuromuscular junction, calmidazolin; nerve-muscle preparation, frog, 454
phenylephrine, isoprenaline, adenosine, cardiac hypertrophy; papillary muscle, hypertensive rats, 284
phenytoin, pharmacodynamic interaction, antiepileptic drugs, phenobarbital; electroshock, mice, 406
phosphodiesterase, beta-adrenoceptors, cAMP, rolipram, antidepressants; brain, rats, 23
phosphoinositides, inositol lipids, calcium; smooth muscle, guinea-pig, 78
pindolol, cAMP, beta-adrenoceptor antagonists, celiprolol, bisoprolol; human lymphocytes, 130
3-PPP, HW-165, dopamine autoreceptors; behaviour, rats, 205
prazosin, noradrenaline, alpha-adrenoceptors, idazoxan; tail arteries, rats, 354
progesteron, O-methylation, cocaine, noradrenaline metabolism; uterus, rabbit, 368
prostaglandin E2, adenocorticotropin, endorphin; anterior pituitary, rats, 149
prostaglandin, endothelium, vasodilation; thoracic aorta, dog, 294
purinoceptors, adenosine nucleotides, neurotransmission; vas deferens, rats, 163

receptor classification, alpha 1-adrenoceptors; iris dilator muscle, aortic strips, rabbit, 271
receptor interaction, noradrenaline, alpha 2-adrenoceptors, opioid receptors; brain slices, rats, 377
receptor protection, noradrenaline, alpha 2-adrenoceptors, opioid receptors; brain cortex, rabbit, 262
rolipram, antidepressants, phosphodiesterase, beta-adrenoceptors, cAMP; brain, rats, 23

seizures, morphine, naloxone, kainic acid; electroencephalography, rats, 47
serotonin 2 receptors, antidepressants, substance P; spinal cord, rats, 1
serotonin, 5-HT receptors, MDL 72222, ICS 205-930, noradrenaline; hippocampus, rabbit, 191
serotonin, inositol phosphates, 5-hydroxytryptamine receptors; smooth muscle, rats, 98
sodium, guanine nucleotides, beta-adrenoceptors, adenylate cyclase; lung, guinea-pig, 124
sodium, hypertension, alpha-adrenoceptors, noradrenaline; cerebral cortex, hypothalamus, Sabra rats, 117
sodium transport, chloride transport, noradrenaline transport, PC-12 cells, 246
sodium, tris, lithium, noradrenaline; vas deferens, rats, 13

somatostatin, ion transport, noradrenaline; small intestine, guinea-pig, 393
somatostatine, neurotensin; brain, rats, 400
SR 41378, aminopyridazines, barbiturates, benzodiazepines; EEG analysis, rats, 196
substance P analogues, nociceptors, histamine, tachykinin antagonists, rabbit ear, guinea-pig ileum, 290
substance P, serotonin 2 receptors, antidepressants; spinal cord, rats, 1
substance P, tachykinins, capsaicin, neurotransmission; ear artery, rabbit, 52
substance P, vasodilatation, capsaicin; vascular smooth muscle, cat, guinea-pig, 59
sulfhydryl agents, cadmium, neuromuscular transmission; diaphragma, mice, 450
sympathectomy, beta-adrenoceptors; spleen, cat, 362

tachykinin antagonists, substance P analogues, nociceptors, histamine, rabbit ear, guinea-pig ileum, 290
tachykinins, capsaicin, neurotransmission, substance P; ear artery, rabbit, 52
thiazide-like diuretics, furosemide; clearance, micropuncture, rats, 457
tris, lithium, noradrenaline, sodium; vas deferens, rats, 13
tryptolines; metabolic identification, rats, 307
tyrosine hydroxylase, dopamine autoreceptors, pergolide; nucleus accumbens, olfactory tubercle, rats, 349

vasodilatation, capsaicin, substance P; vascular smooth muscle, cat, guinea-pig, 59
vasodilation, prostaglandin, endothelium; thoracic aorta, dog, 294
verapamil, calcium channel, autoregulation, Bay K 8644; renal blood flow, dog, 445

W-7, calmodulin, dopamine; tuberoinfundibular neurons, rats, 224
withdrawal responses, opioid peptides, opiates; ileum, guinea-pig, 387

YC-170, Bay K 8644, calcium channel modulator; heart, guinea-pig, aorta, rabbit, 421

Contents of volume 333

No. 1 issued on May 22, 1986

K. Iverfeldt, L.-L. Peterson, E. Brodin, S.-O. Ögren, T. Bartfai: Serotonin type-2 receptor mediated regulation of substance P release in the ventral spinal cord and the effects of chronic antidepressant treatment **1**

M. Feinauer, R. Lindmar, K. Löffelholz, B. Ullrich: Ouabain enhances release of acetylcholine in the heart evoked by unilateral vagal stimulation **7**

H. Bönisch, A. Langeloh: Neuronal efflux of noradrenaline induced by tris or lithium as substitutes for extracellular sodium **13**

N.-E. Andén, M. Grabowska-Andén, L. Klaesson: Stimulation of the synthesis of catecholamines in a sympathetic ganglion via cholinergic and non-cholinergic mechanisms **17**

J. E. Schultz, B. H. Schmidt: Rolipram, a stereospecific inhibitor of calmodulin-independent phosphodiesterase, causes β-adrenoceptor subsensitivity in rat cerebral cortex **23**

Y. Kitada, T. Miyauchi, T. Kosasa, S. Satoh: The significance of β-adrenoceptor down regulation in the desipramine action in the forced swimming test **31**

G. Cichini, H. Lassmann, P. Placheta, E. A. Singer: Effects of clonidine on the stimulation-evoked release of ^{3}H-noradrenaline from superfused rat brain slices as a function of the biophase concentration – Temperature dependent widening of extracellular space **36**

F. Zambotti, N. Zonta, R. Tammiso, P. Ferrario, B. Hafner, P. Mantegazza: Reversal of the effect of centrally-administered diazepam on morphine antinociception by specific (Ro 15-1788 and Ro 15-3505) and non-specific (bicuculline and caffeine) benzodiazepine antagonists **43**

L. Sztriha, Z. Lelkes, G. Benedek, F. Joó: Potentiating effect of morphine on seizures induced by kainic acid in rats. An electroencephalographic study **47**

P. Illes, S. v. Falkenhausen: Functional characterization of substance P receptors in the rabbit ear artery **52**

S. Piper Duckles: Effects of capsaicin on vascular smooth muscle **59**

R. Gamse, C.-R. Martling, A. Saria, J. M. Lundberg: Bronchial, cardiovascular and secretory responses after central administration of capsaicin in the guinea-pig **65**

J. H. Fleisch, L. E. Rinkema, K. D. Haisch, D. McCullough, F. P. Carr, R. D. Dillard: Evaluation of LY 163443, 1-[2-hydroxy-3-propyl-4-{[4-(1H-tetrazol-5-ylmethyl)phenoxy]-methyl}phenyl]ethanone, as a pharmacologic antagonist of leukotrienes D_4 and E_4 **70**

L. Best, T. B. Bolton: Depolarisation of guinea-pig visceral smooth muscle causes hydrolysis of inositol phospholipids **78**

H. Satoh, K. Hashimoto: An electrophysiological study of amiloride on sino-atrial node cells and ventricular muscle of rabbit and dog **83**

No. 2 issued on June 30, 1986

H. Lemoine, A. J. Kaumann: Allosteric properties of 5-HT_2 receptors in tracheal smooth muscle **91**

V. M. Doyle, J. A. Creba, U. T. Rüegg, D. Hoyer: Serotonin increases the production of inositol phosphates and mobilises calcium via the 5-HT_2 receptor in A_7r_5 smooth muscle cells **98**

C. Allgaier, T. J. Feuerstein, G. Hertting: N-ethylmaleimide (NEM) diminishes α_2-adrenoceptor mediated effects on noradrenaline release **104**

D. J. Pettibone, B. V. Clineschmidt, V. J. Lotti, G. E. Martin, J. R. Huff, W. C. Randall, J. Vacca, J. J. Baldwin: L-654,284 a new potent and selective α_2-adrenoceptor antagonist **110**

A. Parini, L. Diop, D. Laude, D. Ben-Ishay, J.-P. Dausse: Changes in central α-adrenoceptors and noradrenaline content after high sodium intake in Sabra salt-sensitive and salt-resistant rats **117**

M. Minuth, K. H. Jakobs: Sodium regulation of agonist and antagonist binding to β-adrenoceptors in intact and N_s-deficient membranes **124**

O.-E. Brodde, R. Schemuth, M. Brinkmann, X. L. Wang, A. Daul, U. Borchard: β-Adrenoceptor antagonists (non-selective as well as β_1-selective) with partial agonistic activity decrease β_2-adrenoceptor density in human lymphocytes. Evidence for a β_2-agonistic component of the partial agonistic activity **130**

F. M. A. Corrêa, J. Ueta, I. R. Pelá: Central adrenergic mediation of the cardiovascular effect of intraventricular bradykinin **139**

S. E. Bachus, K. Gale: Muscimol microinfused into the nigrotegmental target area blocks selected components of behavior elicited by amphetamine or cocaine **143**

W. Knepel, D. Götz: Effect of prostaglandin E_2 on ACTH and β-endorphin release from rat adenohypophysis in vitro after secretagogues which can mimic various first or second messengers **149**

W. Schütz, M. Freissmuth, V. Hausleithner, E. Tuisl: Cardiac sarcolemmal purity is essential for the verification of adenylate cyclase inhibition via A_1-adenosine receptors **156**

D. R. Webster, G. D. Boston, N. H. G. Holford, D. M. Paton: Relationship of metabolism of 2'-, 3'- and 5'-adenine nucleotides to presynaptic inhibition of transmitter release in rat vas deferens **163**

M. T. Márquez, J. E. Ponce-Hornos, P. Aramendía: Effects of papaverine on calcium efflux and contractility in superfused rat left atria **168**

J. J. Grome, V. Stefanovich: Differential effects of methylxanthines on local cerebral blood flow and glucose utilization in the conscious rat **172**

L. Jivegård, J. Svanvik: Loperamide inhibits gallbladder inflammatory fluid secretion in experimental cholecystitis **178**

Short communications

H. N. Doods, D. Davidesko, M.-J. Mathy, H. D. Batink, A. de Jonge, P. A. van Zwieten: Discrimination by *N*-ethylmaleimide between the chronotropic and inotropic response to muscarinic receptor stimulation in rat atrium **182**

V. Santucci, D. Rocher, J. Veyrun, K. Bizière: Quantitative electroencephalographic profile of 3-(4-hydroxy-1-piperidinyl)-6-(2,4-dichlorophenyl)-pyridazine (SR 41378) in the rat **186**

No. 3 issued on July 30, 1986

T. J. Feuerstein, G. Hertting: Serotonin (5-HT) enhances hippocampal noradrenaline (NA) release: Evidence for facilitatory 5-HT receptors within the CNS **191**

P. R. Saxena, D. J. Duncker, A. H. Bom, J. Heiligers, P. D. Verdouw: Effects of MDL 72222 and methiothepin on carotid vascular responses to 5-hydroxytryptamine in the pig: Evidence for the presence of "5-hydroxytryptamine$_1$-like" receptors **198**

S. Hjorth, K. Svensson, A. Carlsson, H. Wikström, B. Andersson: Central dopaminergic properties of HW-165 and its enantiomers; *Trans*-octahydrobenzo(f)quinoline congeners of 3-PPP **205**

P. Soares-da-Silva: Evidence for a non-precursor dopamine pool in noradrenergic neurones of the dog mesenteric artery **219**

G. F. Di Renzo, S. Amoroso, M. Taglialatela, L. Annunziato: Endogenous dopamine release from tuberoinfundibular neurons: Does calmodulin play any role? **224**

A. G. Dupont, R. A. Lefebvre, M. G. Bogaert: Inhibition of noradrenergic neurotransmission by apomorphine and pergolide in the in situ autoperfused rat renal and superior mesenteric vascular beds **229**

L. Oreland, G. Engberg: Relation between brain monoamine oxidase (MAO) activity and the firing rate of locus coeruleus neurons **235**

A. V. Juorio, A. J. Greenshaw, A. A. Boulton: Effects of acute and chronic phenelzine on regional monoamine metabolism in rats and its potentiation by deuterium substitution **240**

U. Friedrich, H. Bönisch: The neuronal noradrenaline transport system of PC-12 cells: Kinetic analysis of the interaction between noradrenaline, Na^+ and Cl^- in transport **246**

L. Cassis, J. Ludwig, M. Grohmann, U. Trendelenburg: The effect of partial inhibition of monoamine oxidase on the steady-state rate of deamination of ^{3}H-catecholamines in two metabolizing systems **253**

Th. Hölting, K. Starke: Receptor protection experiments confirm the identity of presynaptic α_2-autoreceptors **262**

F. Konno, I. Takayanagi: Characterization of postsynaptic alpha$_1$-adrenoceptors in the rabbit iris dilator smooth muscle **271**

R. Palluk, W. Hoefke, W. Gaida, J. Mierau, W.-D. Bechtel: Interactions of MEN 935 (adimolol), a long acting beta- and alpha-adrenolytic antihypertensive agent, with postsynaptic alpha-adrenoceptors in different isolated blood vessels – influence of angiotensin II **277**

M. Böhm, U. Mende, W. Schmitz, H. Scholz: Increased sensitivity to α-adrenoceptor stimulation but intact purinergic and muscarinergic effects in prehypertensive cardiac hypertrophy of spontaneously hypertensive rats **284**

F. Lembeck, R. Amann, L. Barthó: Studies on effects of the substance P analogues [D-Pro^2, D-Trp^{7,9}]-substance P and [D-Arg^1, D-Trp^{7,9}, L-Leu^{11}]-substance P not related to their antagonist action **290**

M. Domae, H. Kuriyama: Effects of prostaglandin I_2 synthesized in the endothelium and in the smooth muscle on mechanical properties of the canine thoracic aorta **294**

L. Rägo, R.-A. Kiivet, J. Harro: Variation in behavioral response to baclofen: Correlation with benzodiazepine binding sites in mouse forebrain **303**

O. Beck, K. F. Faull, D. B. Repke: Rapid hydroxylation of methtryptoline (1-methyltetrahydro-β-carboline) in rat: Identification of metabolites by chiral gas chromatography-mass spectrometry **307**

D. M. Paton, R. A. Olsson, R. T. Thompson: Nature of the N^6 region of the adenosine receptor in guinea-pig ileum and rat vas deferens **313**

P. Geck, B. Pfeiffer: Inhibition of ion transport in Ehrlich cells by muzolimine **323**

Short communication

A.-M. Galzin, S. Z. Langer: Potentiation by deprenyl of the autoreceptor-mediated inhibition of [^{3}H]-5-hydroxytryptamine release by 5-methoxytryptamine **330**

No. 4 issued on September 3, 1986

R. Markstein, D. Hoyer, G. Engel: 5-HT$_{1A}$-receptors mediate stimulation of adenylate cyclase in rat hippocampus **335**

Y. Chaput, C. de Montigny, P. Blier: Effects of a selective 5-HT reuptake blocker, citalopram, on the sensitivity of 5-HT autoreceptors: Electrophysiological studies in the rat brain **342**

A. G. Vulto, C. J. Fowler: The effect of the dopamine agonist pergolide on tyrosine hydroxylase activity in rat striatal and limbic miniprisms in vitro: A model for the dopamine autoreceptor? **349**

P. E. Hicks, M. Najar, M. Vidal, S. Z. Langer: Possible involvement of presynaptic α_1-adrenoceptors in the effects of idazoxan and prazosin on ^{3}H-noradrenaline release from tail arteries of SHR **354**

C. Dahlöf, A. Hedberg, V. Nerme: Evidence for prejunctionally located β_2-adrenoceptors in the cat spleen **362**

J. A. Kennedy, I. S. de la Lande: Effect of progesterone on the metabolism of noradrenaline in rabbit uterine endometrium and myometrium **368**

A. N. M. Schoffelmeer, J. Putters, A. H. Mulder: Activation of presynaptic α_2-adrenoceptors attenuates the inhibitory effect of μ-opioid receptor agonists on noradrenaline release from brain slices **377**

R. Schulz, K. Metzner, T. Dandekar, C. Gramsch: Opiates induce long-term increases in prodynorphin-derived peptide levels in the guinea-pig myenteric plexus **381**

L. A. Chahl: Withdrawal responses of guinea-pig isolated ileum following brief exposure to opiates and opioid peptides **387**

J. R. Keast, J. B. Furness, M. Costa: Effects of noradrenaline and somatostatin on basal and stimulated mucosal ion transport in the guinea-pig small intestine **393**

A. Schotte, J. E. Leysen, P. M. Laduron: Evidence for a displaceable non-specific [^{3}H]neurotensin binding site in rat brain **400**

B. F. D. Bourgeois: Antiepileptic drug combinations and experimental background: The case of phenobarbital and phenytoin **406**

M. Fahim, B. C. Pressman: Improvement of cardiac performance by carboxylic ionophore monensin in greyhound and mongrel dogs **412**

H. Nakaya, Y. Hattori, N. Tohse, M. Kanno: Voltage-dependent effect of YC-170, a dihydropyridine calcium channel modulator, in cardiovascular tissues **421**

T. Nagao, H. Suzuki, H. Kuriyama: Effects of flunarizine on electrical and mechanical responses of smooth muscle cells in basilar and ear arteries of the rabbit **431**

M. Sakanashi, K. Noguchi, T. Kato, R. Sunagawa, H. Ito, J. Nakasone: Vasodilating effects of nicorandil and nitroglycerin in anaesthetized open-chest dogs **439**

N. Ogawa, H. Ono: Different effects of noradrenaline, angiotensin II and BAY K 8644 on the abolition of autoregulation of renal blood flow by verapamil **445**

M. Nishimura, N. Fujise, O. Yagasaki: Effecs of sulfhydryl agents on neuromuscular transmission in the presence or absence of cadmium **450**

Z. Y. Sahaf, S. J. Publicover: Postsynaptic inhibitory effects of phenothiazines at cholinergic synapses may not involve calmodulin **454**

M. Hropot, F. Sörgel, E. Mutschler: Pharmacodynamics and pharmacokinetics of furosemide combinations with potassium-retaining and thiazide-like diuretics: Clearance and micropuncture studies **457**

Indexed in *Current Contents*